IN THE CLAIMS:

- (Previously Presented) A method for removing acrolein from a process stream comprising
 (a) providing a process stream comprising acrolein; and
 - (b) reacting said acrolein in the presence of an acid catalyst with a scavenger compound containing a reactable hydroxyl moiety selected from the group consisting of alcohols, diols, glycerol, polyols, phenols, hydroxyl acids, hydroxyl nitriles and hydroxyl esters having a solubility of at least 1% in the process stream to form an acrolein derivative in a refined process stream.
- 2. (Original) The method of claim 1 wherein said acid catalyst is a solid acid catalyst.
- 3. (Original) The method of claim 1 wherein said process stream further comprises said acid catalyst.
- 4. (Original) The method of claim 1 further comprising adding said acid catalyst to said process stream prior to said reaction step (b).
- 5. (Original) The method of claim 1 wherein said reaction step (b) is conducted at a pH of between 3.0 and 7.0.
- 6. (Original) The method of claim 4 wherein said acid catalyst is selected from the group consisting of glycolic acid and acetic acid.

7.	(Canceled)

- 8. (Previously Presented) The method claim 1 wherein said process stream further comprises water.
- 9. (Original) The method of claim 8 wherein said process stream includes 2.0% to 3.0% by weight water at commencement of said reaction step (b).
- 10. (Original) The method of claim 9 further comprising the step of reducing the water content of said process stream to no more than 0.5% water.
- 11. (Original) The method of claim 1 wherein said acrolein derivative is an acrolein acetal.

Claims 12-14 (Canceled)

- 15. (Original) The method of claim 1 further comprising separating said acrolein derivative from said refined process stream.
- 16. (Original) The method of claim 15 comprising distillation of said refined process stream.
- 17. (Original) The method of claim 1 wherein said process stream further comprises acrylontirile.

10/609, 088 – Ward Response to Office Action 08/04/2006

18. (Original) The method of claim 1 wherein said reacting step is performed in the substantial

absence of a cyanide compound.

19. (Original) The method of claim 1 wherein said process stream further comprises acrylic

acid.

20. (Previously Presented) A method for removing acrolein from a process stream comprising

(a) providing a process stream comprising acrolein; and

(b) reacting said acrolein with a scavenger compound containing a reactable

hydroxyl moiety selected from the group consisting of alcohols, diols, glycerol, polyols,

phenols, hydroxyl acids, hydroxyl nitriles and hydroxyl esters having a solubility of at

least 1% in the process stream at a pH of between 3.0 and 7.0 to form an acrolein

derivative in a refined process stream.

Claims 21 - 39 (Canceled)

4